

03500.016147.



PATENT APPLICATION

17515  
(5)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

AKIYA NAKAYAMA, et al.

Application No.: 10/059,168

Filed: January 31, 2002

For: TRANSPARENT CONDUCTIVE  
FILM FORMATION PROCESS,  
PHOTOVOLTAIC DEVICE  
PRODUCTION PROCESS,  
TRANSPARENT CONDUCTIVE  
FILM, AND PHOTOVOLTAIC  
DEVICE

Group Art Unit: 1751

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MAY 03 2002  
TC 1700

May 1, 2002

Commissioner for Patents  
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed below and on the enclosed Form PTO-1449. Copies of the listed documents are enclosed.

Japan 5-343715

Japan 8-32094

Also enclosed is an English-language abstract for Japan 5-343715, which is believed to comply with the concise explanation of relevance, and an English-language translation for Japan 8-32094.

Inasmuch as the subject application has not yet received a first Office Action, it is believed that this Information Disclosure Statement is timely. See 37 C.F.R. 1.97(b)(3). Accordingly, the Examiner is urged to study this information in its entirety and to form an independent determination of the materiality of the information to the claimed invention. Additionally, the Examiner is requested to indicate that this information has been considered by initialing the appropriate portion of Form PTO-1449.

Applicants' undersigned attorney may be reached in our Costa Mesa, California office by telephone at (714) 540-8700. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

  
Attorney for Applicants

Registration No. 22622

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September 25, 2002

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SEP 27 2002  
TC 1700

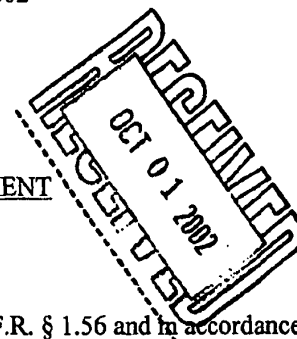
Commissioner for Patents  
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In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed below and on the enclosed Form PTO-1449. Copies of the listed documents are also enclosed.

- (1) U.S. Patent No. 5,510,151
- (2) U.S. Patent No. 5,998,730
- (3) U.S. Patent No. 6,140,570
- (4) Japan 63-456
- (5) Japan 6-116722
- (6) Japan 10-310862
- (7) Japan 11-220154



References (4) to (7) are discussed at pages 2 to 4 of the specification and may be deemed relevant for the reasons given there. English-language abstracts for references (4) to (7) are enclosed. Reference (2) is believed to be an English-language counterpart of reference (6), and reference (3) an English-language counterpart of reference (7). The concise explanation of relevance for each of references (4) to (7) is believed to be satisfied by one of the discussion in the specification, the English-language abstract or the English-language counterpart.

The Examiner's attention is also directed to the following U.S. Application:

<u>APPLICATION NO.</u>	<u>FILING DATE</u>	<u>GROUP ART UNIT</u>
09/983,427	10/24/2001	2812

A copy of the cited Application is enclosed.

Inasmuch as the subject application has not yet received a first Office Action, it is believed that this Information Disclosure Statement is timely. See 37 C.F.R. 1.97(b)(3). Accordingly, the Examiner is urged to study this information in its entirety and to form an independent determination of the materiality of the information to the claimed invention. Additionally, the Examiner is requested to indicate that this information has been considered by initialing the appropriate portion of Form PTO-1449.

Applicants' undersigned attorney may be reached in our Costa Mesa, California office by telephone at (714) 540-8700. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

  
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FORM PTO 1449 (modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)				ATTY DOCKET NO. 03500.016147.		APPLICATION NO. 10/059,168	
				APPLICANT AKIYA NAKAYAMA, et al.			
				FILING DATE January 31, 2002		GROUP <del>1751</del> <b>2823</b>	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
K.N.		5,510,151	04/23/96	Matsuyama et al.	427	509	<div style="transform: rotate(45deg); font-size: 2em;">/</div>
K.N.		5,998,730	12/07/99	Shiozaki et al.	136	256	
K.N.		6,140,570	10/31/00	Kariya	136	256	
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; border-radius: 50%; padding: 10px; text-align: center;">             O I F E              SEP 26 2002              PATENT &amp; TRADEMARK OFFICE           </div> <div style="text-align: right;"> <div style="font-size: 2em; font-weight: bold; transform: rotate(-5deg);">RECEIVED</div> <div style="font-size: 1.2em;">SEP 27 2002</div> <div style="font-size: 1.5em; font-weight: bold;">TC 1700</div> </div> </div>							

FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
K.N.		63-456	01/05/88	Japan			<div style="transform: rotate(45deg); font-size: 2em;">/</div>
K.N.		6-116722	04/26/94	Japan			
K.N.		10-310862	11/24/98	Japan			
K.N.		11-220154	08/10/99	Japan			
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							

EXAMINER <i>K. Henningsen</i>	DATE CONSIDERED <b>04/23/04</b>
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 1 of 1